

**avance** series



# PC60-7

Operating weight  
6,260 kg (13,800 lb)

Flywheel Horsepower  
40 kW 54 HP/1900 RPM

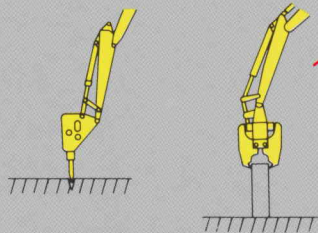


Model shown may include optional equipment.

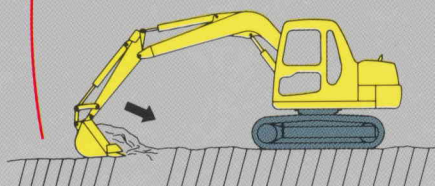
**KOMATSU**



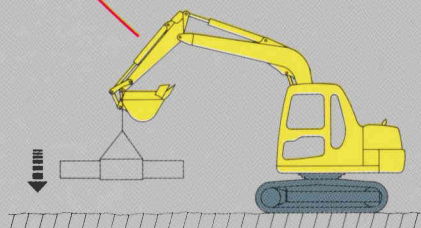
# THE HYDRAUMIND MAKES EVERYTHING EASY.



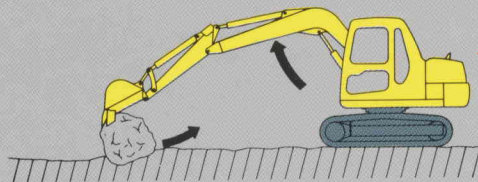
**Switching** attachments is easy — even with such things as breakers or crushers, which require a different amount of oil — because the oil flow can be adjusted simply by adjusting the control pedal stroke for the attachment.



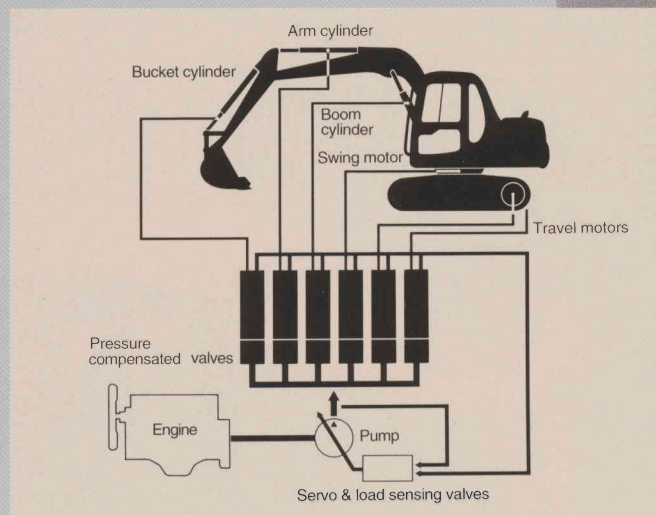
**Fully-loading** bucket is easy, because during simultaneous operations the work equipment can move slowly under maximum power.



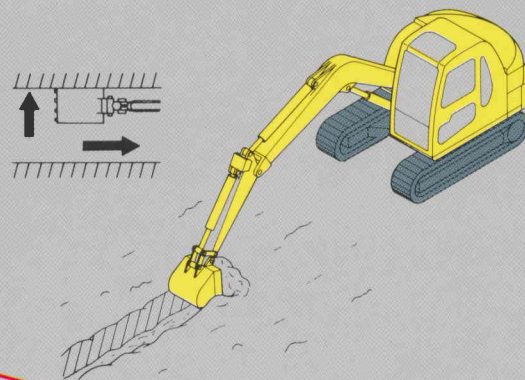
**Fine-control** lifting is easy because the system keeps lever control at a steady constant no matter what size the load.



**Working** through soft rock or pulling up boulders is easy because the system precisely controls boom raise, preventing the cutting edge from slipping.



In the HydraMind system the load sensing valves and pressure compensated valves automatically handle all adjustments for individual work applications based on the pressure and lever stroke they sense.



**Digging** along ditch walls is easy because the system delivers such powerful bucket side force, obtained from swing force.



THIS EXCAVATOR FEATURES THE REMARKABLE NEW **HYDRAUMIND!**



Model shown is the PC200

## WHAT IS THE HYDRAUMIND?

It's a technologically complex yet mechanically simple system which supervises the work operations of the excavator.

The system is not computer-dependent.

It is not essentially electronic, but hydraulic. Its strength lies in its simplicity.

The system incorporates many major breakthroughs.

Komatsu has almost 200 patents on it.

## WHAT ARE THE BENEFITS OF THE HYDRAUMIND?

Power, versatility, maneuverability, controllability — you name it. Never has there been an excavator so easy to operate, so natural, so intuitive. In a sense, you don't really operate it at all, you *wear* it.

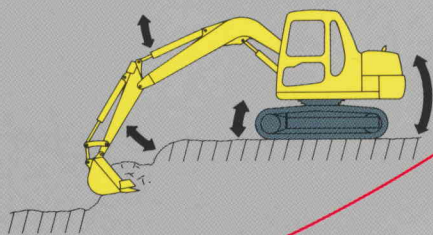
For example, when the ground condition changes in digging...

You don't have to think about changing your lever strokes, because the HydraMind instantly, silently, automatically sends just the right amount of oil to the actuators at just the right pressure to accommodate the change.

When you move boom, arm and bucket at the same time...

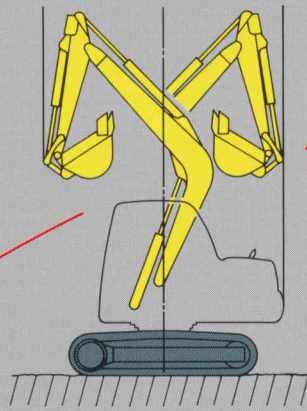
All the equipment works organically at the optimum combination of speed and power—as if it were a human hand.

The HydraMind also makes it easy to change or add valves and work equipment. Moreover, because the system is hydraulic and not electronic, it gives you the best *availability* in the industry.



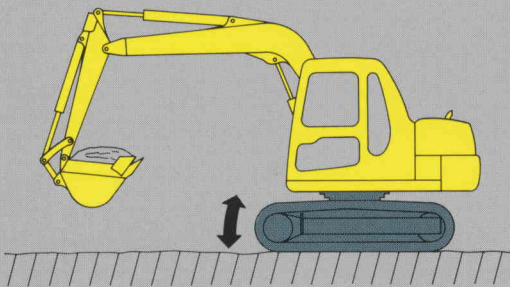
Chassis-shake is reduced during simultaneous operations because the work load causes no change in the work equipment speed.





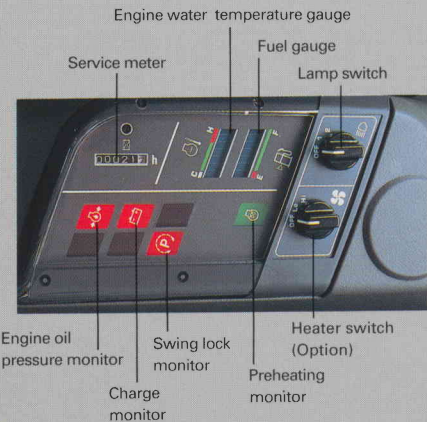
### Small Swing Radius

Swing diameter is just 3.5m for easy maneuverability in confined spaces. Bucket and tail (counterweight) swing radii are both 1.75m.



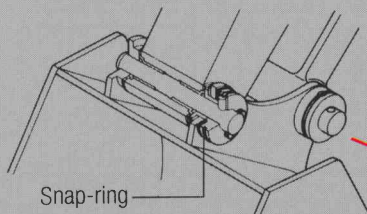
### Low-Profile Body

Extended contact-to-ground track increases machine stability in forward and backward directions for greater operator comfort.



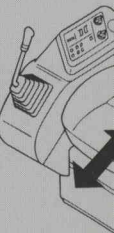
### Easy Bucket Replacement

The snap-ring type bucket pin fixture makes it simple to replace the bucket - just a single screwdriver is all that's needed.



### Adjustable Seat and Control Levers

The operator's seat can be adjusted a full 160mm in the forward and backward directions independently or integral with the bucket control levers for optimum operator comfort and control.





## THIS MACHINE ALSO OFFERS OTHER BIG FEATURES



Model shown includes radio and other optional equipment.

### Totally New Operator Environment

The cab is 200 mm (7'9") longer than the PC60-6 cab, with 14% greater volume. It features a tiltable semi-bucket seat, adjustable wrist control levers, etc.

### Easy Bucket Replacement

The snap-ring type bucket pin fixture makes it simple to replace the bucket - just a single screwdriver is all that's needed.

### Fully-Opening Engine Hood

The engine hood opens fully to facilitate daily checking, possible while standing up.

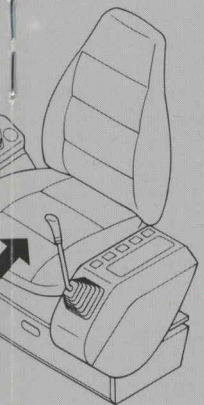
### Resin Exterior

All exterior surfaces of the engine hood are processed with resin to reduce weight and noise.



### Field-Proven Features:

- Automatic deaeration system to eject air in fuel system
- Centralized lubrication for work equipment
- X-leg track frame for superior stability and durability
- Double lock electric connectors for increased reliability
- Thick plate structured work equipment
- Engine key stop
- Swing holding brake for easier working on slopes
- Fuel-efficient Komatsu engine



# SPECIFICATIONS



## ENGINE

Model ..... Komatsu 4D95L  
 Type ..... 4-cycle, water-cooled, direct-injection  
 Aspiration ..... Naturally aspirated  
 No. of cylinders ..... 4  
 Bore ..... **95 mm 3.74"**  
 Stroke ..... **115 mm 4.53"**  
 Piston displacement ..... **3.26 ltr.** 199 cu.in  
 Flywheel horsepower:  
     (SAE J1349) ..... **54 HP 40 kW** at 1900 RPM  
     (DIN 6270 NET) ..... **55 PS 40 kW** at 1900 RPM  
 Governor ..... All-speed, mechanical



## HYDRAULIC SYSTEM

Type ..... HydrauMind (Hydraulic Mechanical Intelligence New Design) system  
     Closed-center system with load sensing valves and pressure compensated valves  
 Main pump:  
     Type ..... Variable-displacement piston pump  
     Pumps for ..... Boom, arm, bucket, swing and travel circuits  
 Maximum flow ..... **1 x 145 ltr.** 38.3 U.S.gal/min.  
 Sub-pump for control circuit ..... Gear pump  
 Hydraulic motors:  
     Travel ..... 2 x Axial piston motor with parking brake  
     Swing ..... 1 x Axial piston motor with swing holding brake  
 Relief valve settings:  
     Implement circuits ..... **250 kg/cm<sup>2</sup>** 3,560PSI/**24.5 MPa**  
     Travel circuits ..... **250 kg/cm<sup>2</sup>** 3,560PSI/**24.5 MPa**  
     Swing circuits ..... **195 kg/cm<sup>2</sup>** 2,770PSI/**24.5 MPa**  
     Pilot circuits ..... **30 kg/cm<sup>2</sup>** 430PSI/ **2.9 MPa**  
     Service valve ..... Add-on type (optional)  
 Hydraulic cylinders:  
     No. of cylinders — bore x stroke  
     Boom ..... **1 – 115 mm x 840 mm** 4.5" x 33.1"  
     Arm ..... **1 – 100 mm x 865 mm** 3.9" x 34.1"  
     Bucket ..... **1 – 90 mm x 710 mm** 3.5" x 28.0"



## SWING SYSTEM

Driven by ..... Hydrostatic motor  
 Swing reduction ..... Planetary gear reduction  
 Swing circle lubrication ..... Grease-bathed

Swing lock ..... Oil disc brake  
 Swing speed ..... 12.0 RPM



## DRIVES & BRAKES

Steering control ..... Two levers  
 Drive method ..... Fully hydrostatic type  
 Drive motor ..... Axial piston motor, in-shoe design  
 Reduction system ..... Eccentric differential, planetary gear reduction  
 Max. drawbar pull ..... **5000 kg** 11,020 lb/**49.0kN**  
 Max. travel speed (High) ..... **4.5 km/h** 2.8 MPH  
 Max. travel speed (Low) ..... **3.0 km/h** 1.9 MPH  
 Service brake ..... Hydraulic lock type  
 Parking brake ..... Oil disc brake



## UNDERCARRIAGE

Track frame ..... Box section type  
 Seal of track ..... Sealed track  
 Track adjuster ..... Hydraulic type  
 No. of shoes ..... 38 each side  
 No. of carrier rollers ..... 1 each side  
 No. of track rollers ..... 5 each side



## COOLANT & LUBRICANT CAPACITY (refilling)

Fuel tank ..... **130.0 ltr.** 34.3 U.S. gal  
 Radiator ..... **12.5 ltr.** 3.3 U.S. gal  
 Engine ..... **11.0 ltr.** 2.9 U.S. gal  
 Final drive, each side (PC60-7) ..... **1.7 ltr.** 0.4 U.S. gal  
 Swing drive ..... **1.5 ltr.** 0.4 U.S. gal  
 Hydraulic tank ..... **67.0 ltr.** 17.7 U.S. gal



## OPERATING WEIGHT (approximate)

Operating weight, including **3710 mm 12'2"** one-piece boom, **1650 mm 5'5"** arm, SAE heaped **0.28 m<sup>3</sup>** 0.37 cu.yd backhoe bucket, operator, lubricant, coolant and full fuel tank and the standard equipment

Triple-grouser shoes	PC60-7	
	Operating weight	Ground pressure
<b>450 mm</b> 18"	<b>6260 kg</b> 13,800 lb	<b>0.30 kg/cm<sup>2</sup></b> 4.27 PSI/ <b>29.4 kPa</b>
<b>600 mm</b> 24"	<b>6420 kg</b> 14,150 lb	<b>0.23 kg/cm<sup>2</sup></b> 3.27 PSI/ <b>22.6 kPa</b>

## Standard Equipment

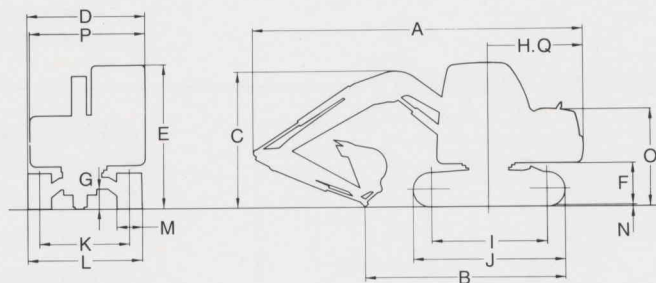
- Air cleaner, dry type with dust indicator
- 25 A alternator
- Automatic deaeration system for fuel line
- All-weather steel cab (with tinted safety glass windows, pull-up type front window with lock device, removable lower windshield, lockable door, floor mat, wiper, adjustable seat, ashtray)
- Cooling fan, suction type
- **650 kg** 1,430 lb counterweight
- Control levers (wrist control, adjustable)
- Drive system: hydrostatic, high-low travel system
- Fuel control lever
- Electric horn
- Front light (1)
- Rearview mirror (RH)
- Radiator and oil cooler with dustproof net
- Revolving frame underguards
- Seat, adjustable
- Starting motor, 24-volt/2.8 kW direct electric
- Track frames:  
5-track/1-carrier rollers (each side), 450 mm 18" triple-grouser shoes and hydraulic track adjusters
- Vandalism protection locks



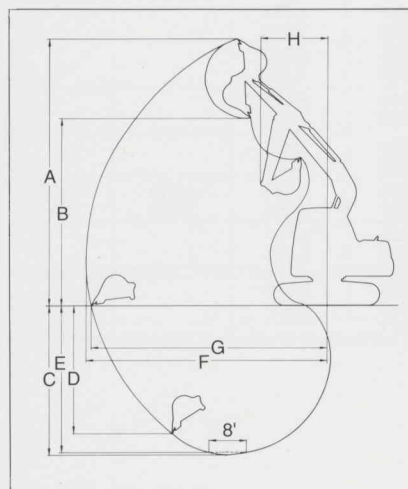


## DIMENSIONS

		PC60-7	
		1.65 m 5'5" arm	2.25 m 7'5" arm
A	Overall length	6080 mm 19'11"	6105 mm 20'
B	Length on ground (transport)	3645 mm 12'	3515 mm 11'6"
C	Overall height (to top of boom)	2500 mm 8'2"	2830 mm 9'3"
D	Overall width	2225 mm 7'4"	
E	Overall height (to top of cab)	2590 mm 8'6"	
F	Ground clearance, counterweight	750 mm 2'6"	
G	Min. ground clearance	350 mm 1'2"	
H	Tail swing radius	1750 mm 5'9"	
I	Length of track on ground	2130 mm 7'	
J	Track length	2765 mm 9'1"	
K	Track gauge	1700 mm 5'7"	
L	Width of crawler	2150 mm 7'1"	
M	Shoe width	450 mm 18"	
N	Grouser height	20 mm 0.79"	
O	Machine cab height	1750 mm 5'9"	
P	Machine cab width	2180 mm 7'2"	
Q	Distance, swing center to rear end	1750 mm 5'9"	



## WORKING RANGE & BUCKET/ARM COMBINATION



		PC60-7	
		1.65 m 5'5" arm	2.25 m 7'5" arm
A	Max. digging height	7150 mm 23'6"	7515 mm 25'
B	Max. dumping height	5015 mm 16'5"	5420 mm 18'
C	Max. digging depth	4100 mm 13'5"	4690 mm 15'5"
D	Max. vertical wall digging depth	3505 mm 11'6"	3265 mm 10'7"
E	Max. digging depth of cut for 8° level	3755 mm 12'4"	4460 mm 14'8"
F	Max. digging reach	6360 mm 20'10"	6900 mm 23'
G	Max. digging reach at ground	6220 mm 20'5"	6770 mm 22'4"
H	Min. swing radius	1750 mm 5'9"	2075 mm 6'8"
Bucket digging force*		4800 kg 10,580 lb/47.1 kN	4800 kg 10,580 lb/47.1 kN
Arm crowd force*		3600 kg 7,940 lb/35.3 kN	3050 kg 6,720 lb/29.9 kN

\*At power max.

### Backhoe bucket and arm combination

Bucket capacity (heaped)		Width		Weight (with side cutters)	No. of teeth	Arm	
SAE, PCSA	CECE	Without side cutters	With side cutters			1.65 m 5'5"	2.25 m 7'5"
0.09 m³ 0.12 cu.yd	0.08 m³ 0.10 cu.yd	350 mm 13.8"	450 mm 17.7"	145 kg 320 lb	3	O	O
0.13 m³ 0.17 cu.yd	0.11 m³ 0.14 cu.yd	450 mm 17.7"	550 mm 21.7"	156 kg 344 lb	3	O	O
0.20 m³ 0.26 cu.yd	0.18 m³ 0.24 cu.yd	550 mm 21.7"	650 mm 25.6"	183 kg 403 lb	3	O	O
0.28 m³ 0.37 cu.yd	0.25 m³ 0.33 cu.yd	650 mm 25.6"	750 mm 29.5"	202 kg 445 lb	4	O	Δ
0.36 m³ 0.47 cu.yd	0.32 m³ 0.42 cu.yd	725 mm 28.5"	825 mm 32.5"	236 kg 520 lb	4	Δ	X

These charts are based on over-side stability with fully loaded bucket at maximum reach.

O General purpose use, weight up to 1.8 t/m³ 1.52 U.S. ton/cu.yd.

Δ Material weight up to 1.2 t/m³ 1.01 U.S. ton/cu.yd.

X Not available

### Optional Equipment

- Air conditioner
- Heater
- Defroster
- Additional front working light
- Track roller guard
- AM radio
- Rearview mirror (LH)
- Automatic greasing
- Seat belt
- Travel pedal
- Tool kit
- First service spare parts
- Windshield washer
- Backup alarm

## ATTACHMENTS

**Clamshell bucket** for vertical deep digging

**Offset boom** for perfectly vertical excavation of side ditches

**Telescopic arm** for deep excavation

**Soil compactor**

**Blade**

**Spike hammer** for concrete surface chiseling work

**Vibratory pile driver**

**Hydraulic breaker**

**Kick ripper** for speedy stripping and smashing roadbed

**Grapple bucket**

**Fork grab** for demolishing wooden houses

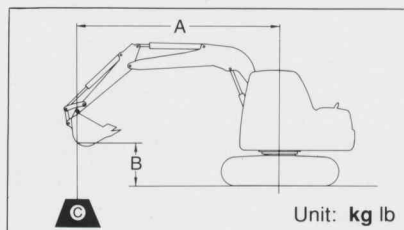
**Rotary grab** can rotate 360 degrees with power

**Rotary log grapple** for loading log

**Demolition 2-piece boom**

Reinforcements or modification (e.g. piping) to the base machine or work equipment may be necessary for the attachments. For details, contact the nearest Komatsu distributor.

## LIFTING CAPACITY



A: Reach from swing center

B: Bucket hook height

C: Lifting capacity

Cf: Rating over front

Cs: Rating over side

⊗: Rating at maximum reach

Conditions:

- 3710 mm 12'2" one-piece boom
- 0.28 m<sup>3</sup> 0.37 cu.yd SAE heaped bucket
- 450 mm 18" triple-grouser shoes

Arm length	A B	⊗ MAX.		5.5 m 18'		4.5 m 15'		3.0 m 10'		1.5 m 5'	
		Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs	Cf	Cs
1.65 m 5'5"	6.0 m 20'	* 1,550 3,400	* 1,550 3,400								
	4.5 m 15'	* 1,350 3,000	1,100 2,400			* 1,350 3,000	1,100 2,400	* 1,350 3,000	* 1,350 3,000		
	3.0 m 10'	1,000 2,200	800 1,800			1,400 3,000	1,100 2,400	* 2,000 4,400	* 2,000 4,400		
	1.5 m 5'	900 2,000	700 1,500	900 2,000	700 1,600	1,300 2,900	1,000 2,200	* 2,500 5,500	1,950 4,300		
	0 m 0'	900 2,000	700 1,500			1,250 2,700	950 2,100	2,350 5,200	1,800 4,000		
	-1.5 m -7'	1,100 2,500	850 1,900			1,200 2,700	950 2,100	2,350 5,200	1,750 3,900	* 3,550 7,800	* 3,550 7,800
	-3.0 m -10'	* 1,350 3,000	* 1,350 3,000					* 1,700 3,700	* 1,700 3,700		
2.25 m 7'5"	0 m 0'	800 1,800	550 1,200	850 1,900	650 1,400	1,200 2,700	900 2,000	2,350 5,200	1,750 3,900		

\* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

**KOMATSU**